

# ABSTRACT

A transmitter having an improved current output is provided, having: a sensor (1), which serves to register a physical quantity (X) and to convert such to an electrical quantity; an electronics (3), which converts the electrical quantity into a measurement signal and makes such available at an electrical current output in the form of a signal current (I) corresponding to the physical quantity; and a pick-up unit (13) having a magnetoresistive element (15), whose resistance changes as a function of the magnetic flux ( $\Phi$ ) produced by the signal current (I). (Fig. 1)